ayon

CD-1

Top Loading
Vacuum Tube Class-A CD-Player

Owner's Operating Manual

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WARNING

PRECAUTION AND SAFETY

TO PREVENT SHOCK OR FIRE HAZARD DO NOT OPEN THE UNIT OR EXPOSE TO RAIN OR MOISTURE. REFER ALL SERVICE TO AYON AUDIO OR AN AYON AUDIO AUTHORIZED SERVICE FACILITY. THERE ARE NO USER SERVICEABLE PARTS INSIDE THE CD-1. REFER ALL INTERNAL SERVICE, UPDATES, OR MODIFICATIONS TO QUALIFIED SERVICE PERSONNEL.

HIGH VOLTAGE IS PRESENT INSIDE AN OPERATING CD-1.
DO NOT REMOVE BOTTOM PLATE OR INSERT ANY OBJECTS THROUGH OPENINGS IN THE CASE.

OPERATING VOLTAGE

The operating voltage is factory set for the destination country and is not user adjustable. Unauthorized attempts to modify the operating voltage may damage the unit and will void the manufacturer warranty.

FUSE

AC power line fuse is located in a snap-out receptacle on the underside of the main Power switch. The correct value of Slow-Blow fuse is 600mA. Do not replace the fuse with a higher than indicated fuse. Disconnect the power cord before changing the fuse.

Serial Number:

Voltage:

Ayon Audio Distributor:

The Ayon Audio Tube CD-1 is presenting a new level of musical performance with stunning vitality, clarity, warmth, dynamic contrasts and construction quality. The CD-1 is the finest CD-Player with vacuum-tube output stage in their class.

INTRODUCTION

Thank you for your purchase of the Ayon Audio CD-1 Class A vacuum tube CD-Player. Please read this owner's manual to obtain the full benefit of the CD-1 in your system. This manual provides you with necessary safety information and operation procedures for this unit.
With this CD-Player, you have entered into the world of exclusive design which will give you great satisfaction and privilege of enjoying the advanced technology of Ayon Audio products. It is designed to serve as a high standard of truthful real musical performance. The care in engineering and manufacturing of this product anticipates a long time of enjoyment.
We also encourage you to enlist the aid of the dealer from whom you purchased this Ayon CD-Player. Your dealer is an excellent source of information on compatibility, installation, and troubleshooting, and should be capable of helping ensure that your overall music system provides you with maximum performance and satisfaction.

WHY VACUUM TUBES

The output level of studio microphones under typical recording conditions contain peaks far in excess of what VU meters display. Everyone knows that, but the peaks, as measured with an oscilloscope, are really quite high, easily exceeding 1 volt! The tube or transistor used in a condenser microphone, or in a microphone preamplifier, often will be driven into severe overload by these peaks. The peaks are short, so the sound isn't grossly distorted-sounding; but the distorted peaks do affect what we hear. All preamps (and condenser microphone electronics) are overloaded by these peaks, but tubes handle it differently than solid-state devices. When transistors overload (in a discrete circuit or in an OP amp), the dominant distortion product is the third harmonic. The third harmonic "produces a sound many musicians refer to as blanketed". Instead of making the tone fuller, a strong third actually makes the tone thin and hard. On the other hand, with tubes (particularly triodes) the dominant distortion product is the second harmonic: "Musically, the second is an octave above the fundamental and is almost inaudible, yet it adds body to the sound, making it fuller".
Tubes sound better because their distortion products are more musical. Tubes provide a more appropriate load to transducers. These are the fundamental reasons why tubes simply sound better.

HANDLING TIPS

1. Always make sure your hands are clean and free of any dirt or oils before carrying your Ayon Audio tube CD-Player.
2. Carry the CD-Player with both hands by gripping the sides of the unit.
3. Never hold the face plate against your clothing as coarse materials such as stitching, belts, etc. will mar and or scratch the surfaces.
4. Never set anything (CDs, LPs, papers, sharp items or other equipment) directly on top of the unit.
5. Use a soft cloth with non-abrasive cleaning products to clean your CD-Player.
6. Avoid prolonged exposure of the appliance to direct sunlight!

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UNPACKING

Open the box and remove the top layer of foam. You will see these items:

1 x CD-Player
1 x AC power cord
1 x Remote control
2 x Battery for RC
1 x Acrylic cover
1 x Magnetic puck clamp
1 x Screw driver
1 x Owner's manual

CONNECTION

When making any connections to this component or any other device, make sure the power amplifier and the preamplifier are OFF and disconnected from the AC current.

1. Plug the CD-1 into a standard wall AC receptacle.
***NOTE**:* If the phase control indicator glow red, the phase polarity is wrong. Reverse the AC plug! (This function is operating for 230V and Schucko plug version only)

2. Connect the CD-1 analog output to the appropriate preamplifier or integrated amplifier input.

The CD-1 is equipped with two analog output configurations:
Single-ended via RCA connectors and balanced via XLR connectors.

The XLR pin configuration is:
Pin 1 Ground
Pin 2 Non-inverting (plus +)
Pin 3 Inverting (minus -)

The left and right channel RCA and XLR outputs are labelled on the rear panel.

The CD-1 is equipped with one S/PDIF coaxial digital output in order to send this output to a digital recording device or external D/A processor.

***Note**:* Never connect this jack to a non-digital input of an amplifier, such as AUX, CD, TAPE, PHONO, etc. Damage May Occur!

BREAK-IN PERIOD

Your new Ayon Audio electronics CD-1 tube CD- Player has an initial break–in period. The unit will not perform to its full sonic potential when first installed in your system. This is partially due to a residual polarization of the dielectric materials used in the PCB, like resistors, capacitors, chokes, transformers and internal wiring. As music is played through the unit, the electrical signal will gradually anneal these materials. Only after the break-in period will the full performance of your Ayon Audio CD-1 is fully realized. The break-in process will occur naturally as music is played through the system.

° Break- in: 30 to 50 hours

Note: For best results, do not burn-in the CD-1 continuously for more than 6 to 8 hours. Give the unit a break before you turn it on again. Burn-in the CD-1 without any stress and be sure to use the system, "Normally".
During the break-in period, the sonic properties of your electronics may undergo several gradual shifts as the various components break–in at different rates. It is therefore suggested that the fine tuning of the system be delayed until after the break–in period is completed. However, during the final phases of the break–in period, the sonic image will open up, the sound stage will bloom to perfection, the bass control and impact will increase and the overall sound will have a more involving soundstage presentation.

OPERATION

Turn on the power switch at rear panel, insert a CD, label side up and affix the CD with the magnetic puck. The "ayon" logo will light up, followed by the "Warm Up" message on the front display panel. Then the total track number and playback time will be indicated on the front display panel.

HOW TO PLAY A CD - IMPORTANT

Playing a CD

1) Press the **OPEN/STOP button** – "Open" lights up on the front display panel.

2) Carefully, place the CD on the CD Spindle and place the Magnetic Puck on the "Spindle", the top center of the CD.
Note: Never play a CD without magnetic puck affixed to the CD.

3) Press the **OPEN/STOP button AGAIN** – This action requests a read of the CD.

4) The total track number and playback time for the entire disc is shown on the front display panel.

5) Press Play to activate playback from the beginning of the CD.

6) To STOP the CD, press the **OPEN/STOP button.**

PLEASE NOTE:
7) Each time a CD is changed, you must press the **OPEN/STOP button twice**, requesting a read of the new CD!

Then press **PLAY** to activate playback from the beginning of the CD.

Press **PAUSE** to temporarily suspend playing the current track. To resume playing at the point pause was engaged, press **PLAY/PAUSE** again.

Press **TRACK FORWARD** once to select and begin playing the track that follows the current track.

Press **SEARCH FORWARD** and hold this key to scroll forward through the current track

Press **SEARCH BACKWARD** and hold this key to scroll back through the current track

Press **TRACK BACKWARD** once to select and begin playing the track that precedes the current track.

***Note*: Never play without magnetic puck affixed to the CD.**

REMOTE CONTROL

1) **MUTE** button

2) **A-B** button for repeated playback of a specified passage (A-B):
During normal playback:
- Press this button once at the starting point (A) of the passage you want to repeat. If do not press the button again to mark the stopping point (B) before the next track starts, the starting point A will be cleared during the track change.
- Press this key again at the end of the passage (B) you want to repeat, the designated passage A-B will be played repeatedly.

3) **PROGRAM** button. When the system is at stop stage:
- Press this button once to display P-00 (now order Track number). Maximum 20 tracks can be programmed.
- Press numeric button to select tracks.
- Press Play button to activate program play
(Use Search Forward, Search Back button to select playback order)

4) **DIMMER** Screen display mode.

5) **INFO** Introduction. When the system is at stop stage:
- Press this button once: the system will scan the disc and playback each track for 15 seconds. After all tracks are played, the system will stop and display the total track number and time for the entire disc.
- Press this key again: the system will return to the normal playback mode.

6) **RANDOM** Playback button. When the system is at stop mode:
- Press this button once: the system will enter random play back mode. After all tracks are played once, the system will stop and display the total track number and playback time for the entire disc.
- Press this button again: the system will return to normal playback.

7) **TIME** button. Track time and surplus time

8) **REPEAT** button. During normal playback:
- Press this button once: the system will play the current track repeatedly.
- Press this button again: the system will play all tracks repeatedly.

9) **NUMERIC** button (0-9, total ten buttons):
- Press 1-9 buttons to select a specific sound track you want to play.
For the track number greater than 9, press the corresponding numeric buttons for the track number desired.

10) **PREVIOUS TRACK** button
When the system is at normal playback, fast forward, fast reverse, or repeat playback, by pressing this button it will clear the playback modes, and the system will playback the previous track normally.(Press this button when the first track is playing and the system will jump to the last track of the disc).

11) **PLAY/PAUSE** button
- When the system is in stop mode, press this button to playback the first track.
- When the system is in pause mode, press this button to return to normal playback.
- When the system is in fast-forward or fast-reverse mode, press this button to return to normal playback.
- When the system is in any playback mode, press this button to pause playback.

12) **FORWARD TRACK** button
- When the system is at normal playback, fast forward, fast reverse, or A-B repeat playback, by pressing this button it will clear the playback modes and the system will playback the next track normally.(Press this button when the last track is playing and the system will jump to the first track of the disc).

13) **SEARCH BACK** button
- When pressing this button during normal playback, the system will play the track reversely at twice the speed than normal. Once the track is finished, the system will play the previous track normally. (Press this button when the system is playing the first track, the system will stop and display the total track number and playback time for the entire disc.)
- When the system is at programming stage, press this key to program the sequence of the tracks.

14) **OPEN/STOP** button
- During normal playback, press this button to stop the system. When the system is in stop mode, press this button to display the total track number and playback time for the entire disc.

15) **SEARCH FORWARD** button
- During normal playback, press and hold this button, the system will play at a twice the speed than normal. Once the track is finished, the system will play the next track normally, (Press this button when the system is playing the last track, the system will stop and display the total track number and playback time for the entire disc).
- During programming, press this button to program the track order.

SPECIFICATIONS

CD-Player	**Ayon CD-1**
Conversation rate	192kHz / 24 bit
CD-Transport	Sony KSS-213Q
Tube complement	2 x 6H30 & 2 x 6922 EH
Dynamic range	> 108dB
Output level @1 kHz / 0,775V -0dB	5.20 V / rms
Output level @1 kHz / 0,775V -0dB	12.50 V / peak
Output impedance Single-Ended-RCA	30 Ohms
Output impedance Balanced-XLR	170 Ohms
Digital output	75 Ohm S/PDIF (RCA)
S/N ratio	> 102 dB
Frequency response	20Hz - 20kHz +/- 1dB
Total harmonic distortion @ 1kHz	< 0.002%
Remote control	Yes
Output complement	RCA & XLR
Power consumption	55 Watts
Dimension (WxDxH) cm	46x31x10 cm
Weight	11 kg
Shipping Dimension (WxDxH) cm	57 x 42 x 23 cm
Shipping Weight	15 kg

Specifications subject to change without notice

VACUUM TUBES

Ayon Audio strongly discourages changing tubes (tube rolling) for the purpose of “improving sonic performance”. Tubes of the same part number from different manufacturer’s and lots generally vary considerably in many operating parameters. The Ayon Audio Class A CD-1 CD Player has been sonically and precisely optimized for the tubes installed at the factory in Austria, by Ayon Audio. The 6H30 & 6922 tubes are highly selected and matched tubes by our experts at Ayon Audio. The original signal tubes will provide for many years of excellent audio performance.

Note: *NEVER REMOVE THE BOTTOM PLATE OF THE CD-1 BEFORE UNPLUGGING THE UNIT FROM THE WALL!*

WARRANTY & SERVICE

LIMITED WARRANTY

Ayon Audio electronic components are warranted by the manufacturer to be free of defects in materials production for a period starting 3 years (except all types of signal, rectifier and power tubes, CD-mechanism and laser pick up), from the date of purchase. Under this warranty defects are repaired free of charge. The purchaser is responsible for transportation from their location to the original sales agent, national distributor, or international distributor, whoever is closest. This warranty applies to the original purchaser only and it is non-transferable to subsequent purchasers within the original 3 year period. Contact your dealer or Ayon Audio USA for commercial warranty policies. Request for repair under this warranty must be accompanied by an unaltered copy of the original purchase receipt.

IN THE EVENT OF A PROBLEM

In the unlikely event of a problem with any Ayon Audio product, if any replacement part is required, you must contact your Ayon Audio dealer first. Ensuring continued operation at the highest level of performance, the defective parts must then be returned to the factory for inspection to determine the status of the warranty claim. This on-site replacement of the parts eliminates the time and expense of shipping the entire unit to the factory for repair. All warranty claims must be made through an authorized Ayon Audio dealer, distributor or Ayon Audio.

CONDITIONS

This warranty is subject to the following conditions and limitations. The warranty is void and inapplicable if the product has been used or handled other than in accordance with the instructions contained within the Owner`s Manual. Units which are abused, misused, suffer electrical damage from lightning, overloaded wall power outlets, serial identification plate and serial number defacing, damage by accident or neglect during transport, tampering or unauthorized repair by anyone other than Ayon Audio or an authorized service center will void all warranties offered by Ayon Audio.

Ayon Audio reserves the right to modify the design of any product without obligation to purchasers of previously manufactured products and to change the price or specifications of any product without notice or obligation to anyone.

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